



State of New Hampshire  
**DEPARTMENT OF ENVIRONMENTAL SERVICES**

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095  
(603) 271-3406 FAX (603) 271-7894



January 8, 2004  
**Letter of Deficiency**  
DSP#04-004

Mr. Dean Kamen  
15 Westwind Drive  
Bedford, NH 03110

RE: Kamen Geothermal Pond Dam #020.45, Bedford

Dear Mr. Kamen:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that play a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on October 17, 2003. During this visual inspection and/or file review, the following deficiencies were observed:

- The upstream and downstream embankments of the dam were covered with brush and trees;
2. There was brush and trees growing within the upstream and downstream reach of the emergency spillway;
  3. The operation and maintenance plan (O&M) needs updating; and
  4. There has been no underwater survey of the liner and pipe penetrations as recommended in the original O&M plan.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

**February 1, 2004:**

1. Complete an update of the O&M plan. The original O&M plan has not been adhered to. Develop a plan that can reasonably be implemented. Refer to the enclosed guidelines;

**November 2004:**

2. Submit as built drawings of the complete dam and appurtenances. Differences from the original plans were noted during the inspection;
3. Remove the trees and brush from the upstream and downstream embankments of the dam, from the upstream and downstream reaches of the emergency spillway, and within 10 feet of the downstream toe of the dam. Enclosed is some information on tree growth on dams; and
4. Complete an underwater survey of the liner and pipe penetrations as recommended in the original O&M plan, and submit findings to DES.

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DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. Please call or write to our office if the repairs are completed ahead of the aforementioned schedule so that DES may schedule a follow-up inspection. Unless notified otherwise, DES will conduct the follow-up inspection on or after the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. Please call or write to our office if the repairs are completed before the aforementioned schedule. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at 29 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095.

Sincerely,

  
**COPY**  
Grace E. Levergood, P.E.  
Dam Safety Engineer

Attachments Guideline for an O&M plan, DB8, DB13  
cc: Gretchen Rule ✓  
Town of Bedford  
Certified # 7000 1670 0000 0586 2695  
GEL/was/h:/safety/wendy/lod/020-45lod.doc